Mech-Eye DEEP
Industrial 3D Camera

For depalletizing and palletizing applications in logistics

Ultra-large FOV | High accuracy | For long-range working distance
High performance | Competitive price | Plug & play simple setup

MTBF (Mean Time Between Failures): **≥ 40,000 hours**

Specifications

Recommended working distance: 1200–3500 mm

Near FOV: 1200 × 1000 mm @ 1.2 m

Far FOV: 3500 × 2800 mm @ 3.5 m

Depth map resolution: 2048 × 1536

RGB resolution: 2000 × 1500

Point Z-value repeatability (σ)[1]: 1.0 mm @ 3.0 m

Measurement accuracy (VDI/VDE)[2]: 3.0 mm @ 3.0 m

Typical capture time: 0.5–0.9 s

Image sensor: Sony CMOS for high-end machine vision

Baseline: 300 mm

Dimensions: 366 × 77 × 92 mm

Weight: 2.4 kg

Light source: Red laser (638 nm, Class 2)

Operating temperature: -10–45˚C

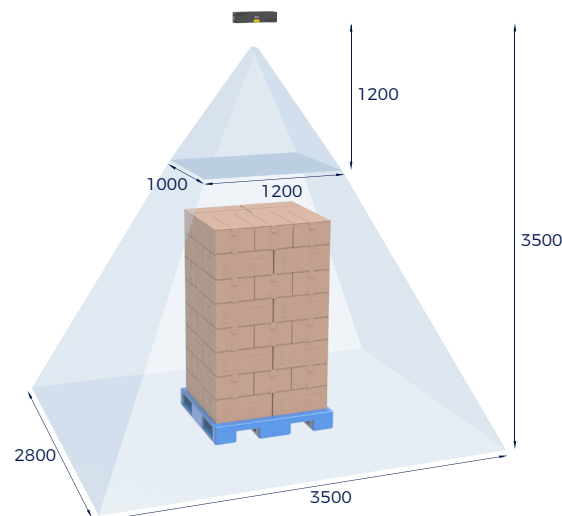Communication interface: Gigabit Ethernet

Input: 24 V DC, 3.75 A

Safety and EMC: CE/FCC/VCCI/KC/ISED/NRTL

IP rating: IP65

Cooling: Passive
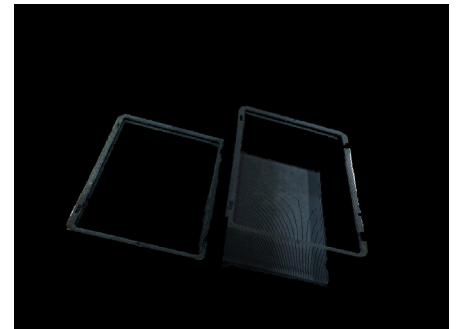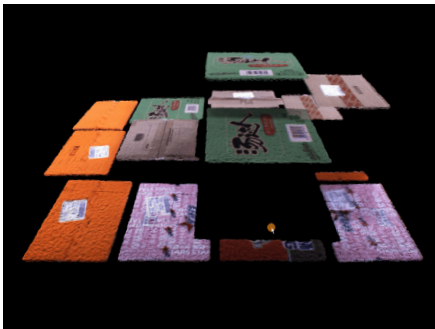
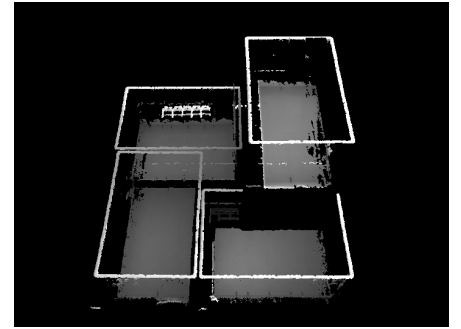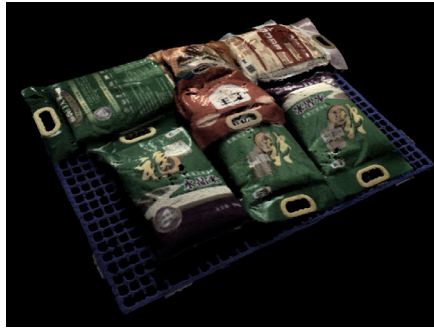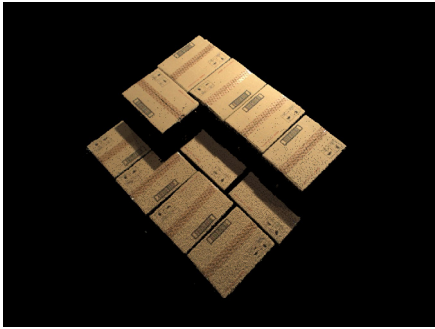MTBF (Mean Time Between Failures) : ≥ 40,000 hours

Field of View (mm)

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[1] One standard deviation of 100 Z-value measurements of the same point. The measurement target was a ceramic plate.
[2] According to VDI/VDE 2634 Part II.

Point Clouds

Tightly-packed cartons
with patterns and tape

Tightly-packed sacks
with patterns

Totes

Designed for Large FOV Logistics Applications